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SMITH A O CORP

Reported by

BEDNAR RANDALL S

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 02/10/12 for the Period Ending 02/09/12

Address	11270 WEST PARK PLACE MILWAUKEE, WI 53224
Telephone	4143594000
CIK	0000091142
Symbol	AOS
SIC Code	3621 - Motors and Generators
Industry	Electronic Instr. & Controls
Sector	Technology
Fiscal Year	12/31

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FORM 4

[ ] Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(f) of the Investment Company Act of 1940

1. Name and Address of Reporting Person *	2. Issuer Name **and** Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)
BEDNAR RANDALL S (Last) (First) (Middle)	**SMITH A O CORP [AOS]**	____ Director ____ 10% Owner _ **X** _ Officer (give title below) ____ Other (specify below) **Senior Vice President - CIO**
A. O. SMITH CORPORATION, 11270 WEST PARK PLACE (Street)	3. Date of Earliest Transaction (MM/DD/YYYY) **2/9/2012**	
MILWAUKEE, WI 53224 (City) (State) (Zip)	4. If Amendment, Date Original Filed (MM/DD/YYYY)	6. Individual or Joint/Group Filing (Check Applicable Line) _ **X** _ Form filed by One Reporting Person ___ Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction (s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	**2/9/2012**		**M**		**3750** (1)	**A**	**$45.588**	**20143**	**D**	
Common Stock	**2/10/2012**		**S**		**1641** (2)	**D**	**$45.588**	**18502**	**D**	

Table II - Derivative Securities Beneficially Owned (*e.g.* , puts, calls, warrants, options, convertible securities)

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Restricted Stock Units	(1)	**2/9/2012**		**M**			**3750**	(1)	(1)	**Common Stock**	**3750**	**$ 0**	**4000**	**D**	

Explanation of Responses:

(1) 3,750 Restricted Stock Units were granted on 02/09/2009, under the A. O. Smith Combined Incentive Compensation Plan, a transaction exempt under Rule 16b-3. 3,750 Restricted Stock Units vested on 02/09/2012. As of result of vesting, the Company is obligated to deliver 3,750 shares of Common Stock to the reporting person.

(2) The reporting person sold these shares to obtain funds to pay the withholding taxes due as a result of the vesting of the restricted stock units described in footnote (1).

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BEDNAR RANDALL S **A. O. SMITH CORPORATION** **11270 WEST PARK PLACE** **MILWAUKEE, WI 53224**			**Senior Vice President - CIO**	

Signatures

James F. Stern, Attorney-in-Fact for Randall S. Bednar — **2/10/2012**

** Signature of Reporting Person — Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

POWER OF ATTORNEY

Know all by these presents, that, for good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, the undersigned revokes the

(1) execute for and on behalf of the undersigned (in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended, and the rules thereunder

(2) do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute any such Documents and timel

(3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the b

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessa

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Documents with respect to the undersigned's hol

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 8th day of February, 2012.

/s/Randall S. Bednar